PASSWORD S.A.S.
VIA F. RASETTI, 4/A
01100 VITERBO (VT)
Tel: 329.20.30.298
333.61.42.996
Fax: 178.272.5880
e-mail: info@epassword.it

M4A88TD-M EVO/USB3

Unlock the Potential, Turbocharge your Performance

Turbo Unlocker - On Demand Real Time CPU Boost

Core Unlocker - Intelligently Unlocks True Core Performance

Turbo Key II - Switch on the Potential, Turn up the Performance!

GPU Boost - Instant iGPU Level Up!

Anti-Surge Protection

True USB 3.0 Support

CPU, Chipset, and Graphics Features

AMD® AM3 Phenom™II /Athlon™II /Sempron™ 100 Series Processors

This motherboard supports AMD® Socket AM3 multi-core processors with unique L3 cache and delivers better overclocking capabilities with less power consumption. It features dual-channel DDR3 1333 memory support and accelerates data transfer rate up to 5200MT/s via HyperTransport™ 3.0 based system bus. This motherboard also supports AMD® CPUs in the new 45nm manufacturing process.

Dual-Channel DDR3 2000(O.C.)/1600/1333/ 1066 support
The motherboard supports DDR3 memory that features data transfer rates of 2000(O.C.)/1600/1333/1066 MHz to meet the higher bandwidth requirements of the latest 3D graphics, multimedia, and Internet applications. The dual-channel DDR3 architecture enlarges the bandwidth of your system memory to boost system performance.

Hybrid CrossFireX™ Support
Boosted Performance with onboard GPU and discrete graphics card

ATI Hybrid CrossFireX™ technology is a unique hybrid multi-GPU technology. It takes your gaming experience to the next level boosting PC performance by enabling the chipset's integrated graphics processor and a discrete GPU to operate simultaneously with combined output for blisteringly-fast frame rates unleashing the graphics performance
* Visit www.amd.com for the Hybrid CrossFireX selected GPUs.

HDMI/DVI/RGB Support
Flexible Graphics Alternatives
This motherboard supports multiple digital and analog display output interfaces - HDMI, DVI, and D-Sub. With such diversity of display outputs, you are able to choose and upgrade display devices freely.

AMD® 880G/SB850 Chipset
AMD® 880G Chipset is designed to support up to 5200MT/s HyperTransport™ 3.0 (HT 3.0) interface speed and PCI Express™ 2.0 x16 graphics. It is optimized with AMD®'s latest AM3 and multi-core CPUs to provide excellent system performance and overclocking capabilities.

SidePort Memory
This motherboard features SidePort Memory, an individual onboard DDR3 memory serving as memory buffer for integrated graphics. With low CPU usage, the SidePort Memory provides integrated graphics acceleration and effectively boosts graphics performance.

HDMI Support
Enjoy Full HD 1080p Multimedia Home-Theater Entertainment
High-Definition Multimedia Interface (HDMI) is a set of digital video standards that delivers multi-channel audio and uncompressed digital video for full HD 1080p visuals through a single cable. Supporting HDCP copy protection such as HD DVD and Blu-ray Discs, HDMI provides you with the highest-quality home theater experience.

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Next-gen Technology

Serial ATA 6.0 Gb/s support
The AMD® SB850 Southbridge natively supports next-generation Serial ATA (SATA) storage interface, this motherboard delivers up to 6.0 Gb/s data transfer rates. Additionally, get enhanced scalability, faster data retrieval, double the bandwidth of current bus systems.

True USB 3.0 Support
Experience ultra-fast data transfers at 4.8Gbps with USB 3.0—the latest connectivity standard. Built to connect easily with next generation components and peripherals, USB 3.0 transfers data 10X faster and is also backward compatible with USB 2.0 components.

Hybrid Switch

Core Unlocker
Intelligently Unlocks True Core Performance
ASUS Core Unlocker simplifies the activation of a latent AMD® CPU—with just a simply switch. Enjoy an instant performance boost by simply unlocking the extra cores, without performing complicated BIOS changes.

Turbo Key II
Switch on the Potential, Turn up the Performance!
Enjoy superb performance by auto-tuning your processor to an extreme yet stable state. Simply activate a dedicated switch on the motherboard to unleash extra processing capabilities.

Hybrid Processor

TurboV EVO
The Ultimate O.C. Processor
The ultimate O.C. processor satisfies every level of overclockers—from die-hard enthusiasts to beginners. Auto tuning intelligently pushes the system to the fastest clock speeds while maintaining stability. Turbo Key boosts performance with just one touch; while TurboV offers more options to advanced overclockers to achieve world O.C. record. Moreover, upgrade your CPU at no additional cost with CPU Level UP!

CPU Level UP

Ever wish that you could have a more expansive CPU? Upgrade your CPU at no additional cost with CPU Level UP! Simply pick the processor you wanted to OC to, and the motherboard will do the rest! See the new CPU speed and enjoy that performance instantly. Overclocking is never as easy as this.

Turbo Key
Touch-n-Boost!
ASUS Turbo Key allows you to turn the PC power button into a physical overclocking button. After the easy setup, Turbo Key can boost performances without interrupting ongoing work or games, simply through pressing the button.

Turbo Unlocker
On Demand Real Time CPU Boost
Turbo Unlocker is the next evolution of an exclusive ASUS performance boost feature. All it takes is one click in the TurboV EVO interface and Turbo Unlocker automatically and dynamically adjusts each core frequency to speed up performance based on actual system load. Turbo Unlocker gets you in touch with more performance exactly when you need it.

GPU Boost
GPU Boost overclocks the integrated GPU in real time for the best graphics performance. User-friendly UI facilitates flexible frequency and voltage adjustments. Its ability to deliver multiple overclocking profiles also provides rapid and stable system-level upgrades.

Auto Tuning
Auto System Level Up
Auto Tuning is an intelligent tool that automates overclocking to achieve a total system level up. This tool also provides stability testing. Even O.C. beginners can achieve extreme yet stable overclocking results with Auto Tuning!

Hybrid OS

Express Gate
0 to Internet in Seconds!
Express Gate™ is an ASUS exclusive OS that provides you with quick access to the Internet and key applications before entering Windows®.

ASUS Power Solutions

EPU

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System Level Energy Efficiency
The ASUS EPU (Energy Processing Unit) provides total system power management by detecting current PC loadings and intelligently moderating power usage for critical PC components in real-time–helping save power and money!

Anti-Surge Protection
This special design prevents expensive devices and the motherboard from damage caused by power surges from switching power supply(PSU).

Exclusive Features

MemOK!
Any Memory is A-OK!
MemOK! quickly ensures memory boot compatibility. This remarkable memory rescue tool requires a mere push of a button to patch memory issues. MemOK! determines failsafe settings and dramatically improves your system boot success. Get your system up and running in no time!

Quiet Thermal Solution

FanXpert
Active Quiet & Cool
ASUS Fan Xpert intelligently allows users to adjust both the CPU and chassis fan speed according to different ambient temperature , which is caused by different climate conditions in different geographic regions and system loading.Built-in variety of useful profiles offer flexible controls of fan speed to achieve a quiet and cool environment.

EZ DIY

CrashFree BIOS3
The ASUS CrashFree BIOS 3 allows users to restore corrupted BIOS data from a USB flash disk containing the BIOS file. This utility saves users the cost and hassle of buying a replacement BIOS chip.

O.C. Profile
Conveniently store or load multiple BIOS settings
Freely share and distribute favorite overclocking settings The motherboard features the ASUS O.C. Profile that allows users to conveniently store or load multiple BIOS settings. The BIOS settings can be stored in the CMOS or a separate file, giving users freedom to share and distribute their favorite overclocking settings.

EZ Flash 2
ASUS EZ Flash 2 is a user-friendly BIOS update utility. Simply press the predefined hotkey to

launch the utility and update the BIOS without entering the OS. Update your BIOS easily without preparing a bootable diskette or using an OS-based flash utility.

Q-Shield
The specially designed ASUS Q-Shield does without the usual “fingers”—making it convenient and easy to install. With better electric conductivity, it ideally protects your motherboard against static electricity and shields it against Electronic Magnetic Interference (EMI).

Industry Standard

S/PDIF-out on Back I/O Port
This motherboard provides convenient connectivity to external home theater audio systems via optical S/PDIF-out (SONY-PHILIPS Digital Interface) jacks. It allows to transfer digital audio without converting to analog format and keeps the best signal quality.

8 Channel Audio Codec
Enjoy high-end sound system on your PC!
The onboard 8-channel HD audio (High Definition Audio, previously codenamed Azalia) CODEC enables high-quality 192KHz/24-bit audio output, jack-sensing feature, retasking functions and multi-streaming technology.

RoHS

GreenASUS
The motherboard and its packaging comply with the European Union's Restriction on the use of Hazardous Substances (RoHS). This is in line with the ASUS vision of creating environment-friendly and recyclable products and packaging to safeguard consumers' health while minimizing the impact on the environment.

The product (electrical , electronic equipment, Mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.

PCB color and bundled software versions are subject to change without notice.

Brand and product names mentioned are trademarks of their respective companies.

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Specifications

CPU

AMD Socket AM3 ;Phenom™II /Athlon™II /Sempron™ 100 Series Processors
Supports 45nm CPU
AMD Cool 'n' Quiet™ Technology
Chipset AMD 880G/SB850
System Bus Up to 5200 MT/s ; HyperTransport™ 3.0
Memory 4 x DIMM, Max. 16 GB, DDR3 2000(O.C.)/1600/1333/1066 ECC,Non-ECC,Un-buffered

Memory

Dual Channel memory architecture
*Due to CPU spec., AMD 100 and 200 series CPUs support up to DDR3 1066Mhz. With ASUS design, this motherboard can support up to DDR3 1333MHz.
**Due to OS limitation, when installing total memory of 4GB capacity or more, Windows® 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.
***Refer to www.asus.com for the memory QVL (Qualified Vendors Lists).

Expansion Slots

1 x PCIe 2.0 x16
2 x PCIe 2.0 x1
1 x PCI

VGA Integrated ATI Radeon™ HD 4250 GPU

SidePort Memory - onboard 128MB DDR3 1333 memory
Dual independent displays support with HDMI/DVI and D-Sub
Supports HDMI with max. resolution 1920 x 1200 (1080P)
Supports DVI with max. resolution 2560x1600 @60Hz
Supports D-Sub with max. resolution 2560x1440 @75Hz
Supports Microsoft® DirectX 10.1, OpenGL 2.0, Shader Model 4.1

Hardware Decode Acceleration for H.264, VC-1, and MPEG-2
Max. shared memory of 1GB
Hybrid CrossFireX™ Support
Storage SB850 Chipset
5 xSATA 6.0 Gb/s ports Support RAID 0,1,5,10

1 x eSATA port (6Gb/s ready)
VIA VT6415 PATA controller
1 xUltraDMA 133/100 for up to 2 PATA devices

LAN Realtek® 8111E Gigabit LAN controller featuring AI NET2
Audio Realtek® ALC 892 8-Channel High Definition Audio CODEC

- Supports 192kHz/ 24bit BD Lossless Sound

- Supports Jack-Detection, Multi-Streaming, and Front Panel Jack-Retasking

- Optical S/PDIF Out port at back I/O
IEEE 1394 VIA® VT6315N controller supports 2 x 1394a port(s) (1 at mid-board, 1 at back panel)
USB 2 x USB 3.0 ports (@PCIE USB3 card)
14 x USB 2.0/1.1 ports (8 ports at mid-board, 6 ports at back panel)

ASUS Unique Features ASUS Xtreme Design

ASUS Hybrid Processor - TurboV EVO

- Turbo Unlocker, Auto Tuning, TurboV, CPU Level UP, and GPU Boost

ASUS Hybrid Switch

- Core Unlocker
- Turbo Key II

ASUS Hybrid OS -- Express Gate

ASUS Power Solutions

- 4+1 Phase Power Design
- ASUS Anti-Surge Protection
- ASUS EPU
ASUS Exclusive Features
- MemOK!

ASUS Quiet Thermal Solution

- ASUS Fanless Design: Heat sink solution
- ASUS FanXpert

ASUS EZ DIY

- ASUS Q-Shield
- ASUS O.C. Profile
- ASUS CrashFree BIOS 3
- ASUS EZ Flash 2
- ASUS MyLogo 2
- Multi-language BIOS

Overclocking Features Precision Tweaker 2

- vCore: Adjustable CPU voltage at 0.003125V increment

- vDIMM: 64-step DRAM voltage control

- vChipset (NB): 64-step Chipset voltage control
SFS (Stepless Frequency Selection)

- PCI Express frequency tuning from 100MHz up to 150MHz at 1MHz increment

- HT tuning from 100MHz up to 550MHz at 1MHz increment
Overclocking Protection

- ASUS C.P.R.(CPU Parameter Recall)

Back Panel I/O Ports

1 x PS/2 Keyboard/Mouse Combo port
1 x DVI
1 x D-Sub
1 x HDMI
1 x External SATA
1 x S/PDIF Out (Optical)
1 x IEEE 1394a
1 x LAN(RJ45) port
8 -Channel Audio I/O
2 x USB 3.0 ports (@PCIE USB3 card)
6 x USB 2.0/1.1 ports

Internal I/O Connectors

4 x USB connectors support additional 8 USB 2.0/1.1 ports
1 x IDE connector
5 x SATA 6Gb/s connectors
1 x CPU Fan connector
1 x Chassis Fan connector
1 x Power Fan connector
1 x IEEE1394a connector
1 x S/PDIF Out Header
1 x Core Unlocker Switch
1 x Turbo Key II Switch
1 x MemOK! Button

Front panel audio connector
1 x COM connector
1 x LPT connector
1 x Clear CMOS jumper
1 x 24-pin ATX Power connector
1 x 4-pin ATX 12V Power connector
System Panel

BIOS

16 Mb Flash ROM , AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.5, ACPI 2.0a

Manageability WOL by PME,WOR by PME,WOR by Ring,PXE

Accessories

1 x PCIE USB3 card
1 x Ultra DMA 133/100 cable
2 x Serial ATA 6.0Gb/s cables
1 x Q-Shield
1 x User's manual & Support DVD for M4A88TD-M EVO
1 x User's manual & Support DVD for PCIE USB3

Support

Disc Drivers
Anti-virus software (OEM version)

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ASUS Update
ASUS Utilities

Form Factor uATX Form Factor
9.6 inch x 9.6 inch (24.4 cm x 24.4 cm)

The product (electrical , electronic equipment, Mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
PCB color and bundled software versions are subject to change without notice.

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